RICOH
imagine. change.

An all-purpose, all-weather field camera

WG-4

WG-4 GPS

WG-4

The WG-4 is the champion of active field photography.

A rugged body, waterproof to 14 meters and shockproof to 2 meters, triumphs in demanding outdoor conditions.

Waterproof	Shockproof	Coldproof	Crushproof
14m	2m	-10°C	100kgf

• Waterproof performance: equivalent to JIS Class 8 or IPX8 • Dustproof performance: equivalent to JIS Class 6 or IPX6 • Cold-weather performance: The number of recordable images decreases as the ambient temperature drops. • Shockproof performance: Measured under RICOH IMAGING in-house testing standards (against falls from heights of 2 meters, onto a surface of 5cm-thick plywood), conforming to Method 516.5-Shock of the MIL-Standard 810F. • Crushproof performance: Measured using RICOH IMAGING in-house testing standards.

Exceptional image quality for true-to-life expression of spectacular nature, nightscape and underwater scenes

The WG-4 comes equipped with a four-times optical zoom lens with an approx. 25mm wide-angle coverage (in the 35mm format) and approx. 16.0 effective megapixels. Coupled with the back-illuminated CMOS image sensor and high-performance imaging engine, it assures sharp, high-resolution images with a wide dynamic range and low noise. Exclusively designed for underwater photography, its new-generation Mermaid shooting mode optimizes color rendition and contrast while minimizing unwanted color cast. Land or sea, the WG-4 delivers beautiful, true-to-life images under all conditions.

Bright lens with F2.0 maximum aperture

SR Shake Reduction

Coupled with the image-sensor-shift-type SR (Shake Reduction) mechanism, the large-aperture zoom lens effectively minimizes camera shake and subject shake for blur-free images.

Secondary LCD monitor (WG-4 GPS model only)

With the built-in pressure gauge, this monitor indicates the air pressure or altitude.

The monitor image is illuminated with a backlight.

WG-series-exclusive Digital Microscope mode to discover the wonders of a microscopic world

Six LED Macro Lights are positioned around the lens barrel to more brightly and uniformly illuminate the subject and eliminate shadows. You can easily observe the microscopic world, as if peeking into a microscope, and capture it in a still image or movie.

A macro stand is included for more stable macro shooting.

Image taken in Digital Microscope mode

Digital compass and GPS functions to facilitate outdoor shooting (WG-4 GPS model only)

The WG-4 GPS's digital compass not only indicates the direction the lens is facing, but also displays the latitude, longitude and air pressure of a shooting location on the LCD monitor. Its state-of-the-art GPS module automatically geotags your shooting locations on captured images, making it possible to mark those locations on a map or follow your movements on a computer. You can easily retrace your photographic adventures at home.

Note: Geotag data may not be recorded if the GPS position data cannot be confirmed due to operating conditions.

Other features: Shutter Priority mode; USER mode; 16-scene Auto Picture mode; Face Detection AF & AE mode (32 faces max.); Auto Tracking AF mode; AF-assist light; D-range setting; Continuous shooting mode; Burst shooting mode; Smile Capture mode; Pet Detection mode; HDR mode; Small Face filter; Ink Rubbing filter; Digital filters; CLAS (Commerce at Light Speed) mode; High-sensitivity mode; Digital movie SR (Shake Reduction) mode; Full-HD movie recording; Interval shooting mode; Interval movie mode; High-speed camera function; Fast-forward movie function; Movie title insertion function; Auto bracketing mode; Magnified menu mode; Eye-Fi wireless LAN SD memory card compatibility; SDXC memory card compatibility; Waterproof remote control (optional accessory) compatibility

Discover the fun of hands-free shooting with optional WG-series accessories. Interval shooting and movie recording add new dimensions to your creativity.

O-CM1471 / WG Adhesive Mount

(Adhesive mount area: 43mm x 39mm)
For fixing the camera on a flat surface with double-faced adhesive tape

The optional WG Holder is required to fix the camera.

O-CM1473 / WG Suction Cup Mount

(Suction cup mount area: 80mm in diameter)
For fixing the camera by suction cup

The optional WG Holder is required to fix the camera.

O-CM1472 / WG Handlebar Mount

(Usable pipe size: 20mm to 35mm in diamter)
For fixing the camera on bar-shaped objects, like handlebars, with a pinching action

The optional WG Holder is required to fix the camera.

WG Holder for all WG-series models

O-CH1470 WG Holder
An optional WG-series accessory for secure mounting of the camera

This WG holder can be used with all WG-series models.

Notes• With some objects and/or under certain conditions, it may not be possible to install these accessories, or they may be accidentally disconnected. Make sure that the camera is firmly secured before shooting.
• The photos and installation schematics above are conceptual images used to demonstrate the function and application of WG-series accessories.

Black Blue Silver Lime Yellow

RICOH WG-4 GPS RICOH WG-4

Other optional accessories for RICOH WG-4 and WG-4 GPS

1.

2.

3.

4.

5.

Weatherproof design

1. Black neoprene case
   A casually styled camera case
2. O-ST1352 / Floating Wrist Strap
3. Chest harness
   Perfect for any sports where you want your hands free
4. DW-5 / Wide Conversion Lens*
   For 0.8X magnification photography
5. O-RC1 / Waterproof Remote Control
   For remote zooming and shutter-release functions, with strap loop

*The optional O-LA135 Lens Adapter is required to mount the wide conversion lens on the camera.
The wide conversion lens cannot be used in the water.

Specifications

Lens	RICOH lens, 9 elements in 7 groups (4 aspherical elements) 4.5 - 18 mm (approx. 25 - 100 mm in 35mm format equivalent), F2.0 (W) - F4.9 (T) 4× optical zoom, approx. 7.2× digital zoom, maximum approx. 28.8× intelligent zoom	
Motion Blur Reduction	Still	Sensor-shift (SR: Shake Reduction), Dual (SR **&** Pixel Track SR), High-sensitivity anti-shake mode (Digital SR)
	Movie	Movie shake reduction mode (Movie SR)
Focus	AF Type	9-point AF, Spot AF, Auto tracking AF
	Focus range (from lens face) Standard: 0.4m - infinity (entire zoom range) Macro: 0.1 - 0.5m (entire zoom range) 1cm Macro: 0.01 - 0.3m (Mid-zoom to telephoto) Infinity-landscape, Pan Focus, Manual Focus: available	
Face Detection	Face Detection AF**&**AE is available for all modes up to 32 faces. Smile Capture, Self-portrait Assist, Self-portrait Assist + Smile Capture, Blink Detection	
Number of Effective Pixels	approx. 16 megapixels	
Image Sensor	1/2.3 inch CMOS	
Number of Recorded Pixels	Still	16M, 12M(1:1), 12M(16:9), 7M, 5M(16:9), 5M, 4M(16:9), 3M, 2M(16:9),1024, 640
	Movie	1920, 1280
Sensitivity (Standard Output Sensitivity)	Auto, Manual (ISO 125 - 6400)	

White Balance	Auto, Daylight, Shade,Tungsten light, Fluorescent light(D:Daylight Color, N:Daylight White, W:White Light), Manual	
Display	3.0" wide-LCD, Wide viewing angle, approx. 460K dots, AR Coating(LCD Cover only)	
Shooting/Playback Modes	Shooting Modes: 29, Playback Modes: 16	
Shutter Speed	1/4000 - 1/4sec.(Mechanical and electronic shutter) , 1/2000 - 4 sec.(Shutter Priority, Night Scene mode)	
Storage Media	Built-in memory (approx. 70 MB), SD/SDHC/SDXC memory card	
Power Source	Rechargeable lithium-ion battery D-LI92, Optional AC adapter kit	
	Battery Life Still: Approx. 240 shots (using the rechargeable lithium-ion battery)*1 Playback: Approx. 200 min. (using the rechargeable lithium-ion battery)*2	
Waterproof/Dustproof Rating	Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities.	
Dimensions	approx. 125(W) × 64.5(H) × 32(D)mm approx. 4.9(W) x 2.5(H) x 1.3(D) inches	
Weight	RICOH WG-4 GPS:	approx. 236g (loaded and ready) approx. 8.3 oz.
	RICOH WG-4:	approx. 229g (loaded and ready) approx. 8.1 oz.
	RICOH WG-4 GPS:	approx. 216g (without battery and SD memory card) approx. 7.6 oz.
	RICOH WG-4:	approx. 209g (without battery and SD memory card) approx. 7.4 oz.
Accessories	Rechargeable lithium-ion battery, Power adapter, USB cable, Software (CD-ROM)*3, Carabiner strap, Macro stand	

* Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary depending on operating conditions. ** According to the result of RICOH IMAGING in-house testing.

Still image and movie recording capacity (approximate data)

Still image	16M(4608×3456)			12M[1:1](3456×3456) 12M[16:9](4608×2592)			7M(3072×2304)			5M[16:9](3072×1728) 5M(2592×1944)			4M[16:9](2592×1464)			3M(2048×1536)		
Image size	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
Internal memory	13	23	39	15	31	47	23	44	71	28	54	78	37	71	101	44	87	128
4GB	727	1284	2117	856	1676	2568	1284	2366	3771	1527	2943	4162	2011	3771	5486	2366	4642	6705
8GB	1479	2613	4309	1742	3411	5226	2613	4816	7675	3109	5990	8470	4093	7675	11165	4816	9447	13646

Still image	2M[16:9](1920×1080)			1024(1024×768)			640(640×480)		
Image size	★★★	★★	★	★★★	★★	★	★★★	★★	★
Internal memory	64	117	172	154	263	344	320	497	560
4GB	3448	6352	9284	8046	13411	17243	17243	24140	30175
8GB	7018	12927	18894	16375	27292	35090	35090	49126	61407

Movie	1920(1920×1080)	1280(1280×720)	
Frame rate	30fps	60fps	30fps
Internal memory	26 sec.	34 sec.	41 sec.
4GB	32 min. 16 sec.	32 min. 24 sec.	51 min. 18 sec.
8GB	1 hr. 5 min. 51 sec.	1 hr. 5 min. 59 sec.	1 hr. 44 min. 42 sec.

Notes: • The still-image and movie recording capacities described above are approximate figures, and may differ from actual figures depending on the capacity of a memory card and the type of subject. • The maximum length of a continuously recorded movie clip is 25 minutes. *1 The recording capacity shows an approximate number of images recorded under CIPA-compliant testing standards (with LCD monitor on, with flash used for 50% of images, at 23°C). Actual performance may vary depending on operating conditions. *2 Based on the results of RICOH IMAGING in-house testing. *3 This software includes Media Impression 3.6.1 LE (Windows® version) and Media Impression 2.2 LE (Macintosh version) designed by ArcSoft, Inc.

About WG-4/WG-4 GPS's waterproof, dustproof and shockproof performance

Waterproof and dustproof performance: The WG-4 and WG-4 GPS are waterproof to a depth of 14 meters, and for up to two hours of continuous operation (equivalent to JIS Class 8) and dustproof (equivalent to JIS Class 6 or IP68). For underwater use, make sure to observe the following instructions to ensure proper operations. Precautions before underwater use: • A protective glass is placed in front of the lens to optimize waterproof performance. Always keep it clean, as stains, smudges and water drops can affect the quality of recorded images. • Always attach the optional floating wrist strap and wrap it around your wrist in case the camera sinks in the water. • Ensure that all foreign substances such as sand and dirt have been wiped away from the airtight seals installed on the battery/memory card and terminal covers and their contact surfaces. • Ensure that the airtight seals installed on the battery/memory card and terminal covers are free of cracks and chips. • Ensure that the battery/memory card and terminal covers are securely locked. • Avoid subjecting the camera to excessive shock, such as that created by plunging into the water. **Shockproof performance:** • The WG-4/WG-4 GPS's shockproof performance was measured using RICOH IMAGING in-house testing standards (against falls from a height of 2 meters, onto a surface of 5cm-thick plywood), conforming to Method 516.5-Shock of the MIL-Standard 810F. • The WG-4/WG-4 GPS's shockproof performance is not guaranteed when the camera experiences excessive shock (such as striking a hard object, or a drop from excessive height). • The WG-4/WG-4 GPS's shockproof performance does not guarantee that will remain damage- and trouble-free under all conditions.

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• Images taken with the RICOH WG-4/WG-4 GPS for anything other than personal enjoyment cannot be used without permission, according to the rights as specified in the Copyright Act. Users are advised to take care, as there are cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on displays. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act; care also should be taken in this area. • The liquid crystal panel used for the monitor is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate, or may illuminate when they should not. However, this has no effect on the recorded image. • This product is a Class B information technology device conforming to the standards prescribed by The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) in Japan. Although it is primarily designed and manufactured for use in the household environment, it may cause electromagnetic interference to radio and TV receivers. Users are advised to follow the instructions described in the operating manual. • Users are advised to carry spare batteries for extended shooting sessions. • The sample photos used in this leaflet are conceptual images designed to demonstrate the WG-4/WG-4 GPS's specific features and functions, and may not have actually been taken with the WG-4/WG-4 GPS. • Images appearing in the LCD monitor are simulated. • Due to the properties of the printing process, there may be some discrepancies in color between the actual product and product images appearing in this leaflet. • Designs and specifications are subject to change without notice. • All contents of this leaflet are copyrighted, and must not be used, duplicated or transmitted, whether in part or in entirety, without permission. This leaflet is produced for personal, noncommercial use only, and must not be used for any purpose other than its intended use.

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